

Clarion

DRB3475/ DRB2475

AM/FM CD PLAYER
RADIO AM/FM-LECTEUR CD
RADIO AM/FM Y REPRODUCTOR CD

Owner's manual / Mode d'emploi / Manual de instrucciones

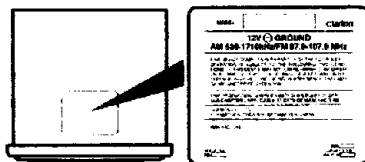
1. PRECAUTIONS

1. When the inside of the car is cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If dew forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy roads which cause severe vibrations may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

⚠ CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.



Bottom View of Source Unit

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

2. FEATURES


- MAGI-TUNE® FM Reception System
- AM/FM Bands—1 AM, 3 FM
- 18 FM/6 AM Touchbutton Memory
- Automatic Station Store (AS)
- 8-Times Oversampling Digital Filter
- Dual 1-bit D/A Converters
- Intro Music Scan
- DIN Chassis with Detachable Control Panel
- Digital Quartz Clock
- Electronic Audio Controls
- 2-Channel RCA Line Level Output (DRB3475)
- 140 W (35 W × 4) Maximum Power Output

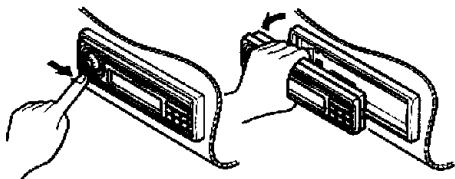
3. DCP (Detachable Control Panel)

The control panel can be detached to prevent theft. After detaching the control panel, store it in the DCP case to prevent scratches.

We recommend taking the DCP with you when leaving the car.

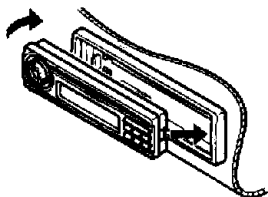
Removing the DCP

1. Turn the power off.
2. Press the DCP release button .
3. Pull the left side of the DCP toward you to remove it.



Attaching the DCP

1. Insert the right side of the DCP into the source unit opening first.
2. Press on the left side of the DCP face to snap it into place.



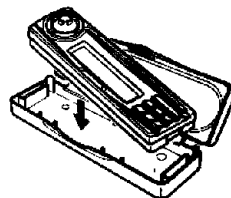
▲ CAUTION

Do not insert the left side of the DCP in place first and try to force the right side into place.

Attempting to do so will damage the DCP or the locking mechanism.

Storing the DCP in the DCP Case

1. Hold the DCP in the orientation shown in the figure below.
2. Insert it into the DCP case.
3. Close and snap the case cover shut.



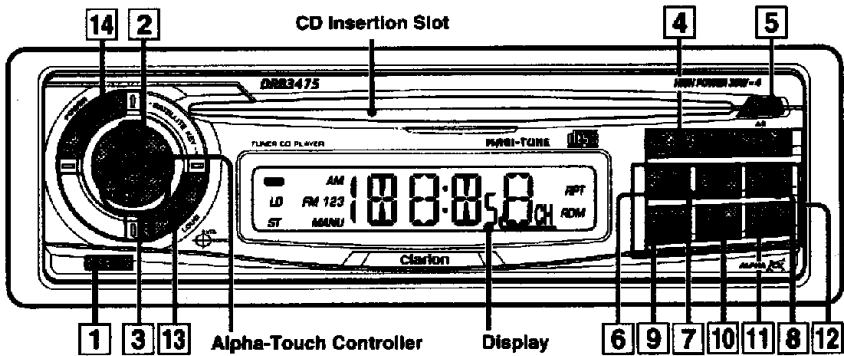
▲ CAUTION

- The DCP can easily be damaged by shocks. After removing it, be careful not to drop it or subject it to strong shocks.
- The connector connecting the source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, screwdrivers, etc.

Note:

- If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.

4. OPERATION



- 1 DCP Release Button
- 2 Up/Down (▲ and ▼) Buttons
- 3 Left/Right (◀ and ▶) Buttons
- 4 BAND (Tuning Mode) Button []
- 5 Eject (▲) Button []
- AS (Automatic Station Store) Button []
- 6 SCN (Intro Music Scan) Button []
- 7 RPT (Repeat Play) Button []
- 8 RDM (Random) Button []
- 9 DISP (Display) Button
- 10 Play/Pause (▶/||) Button []

- 11 TOP (Top Play) Button []
- 12 Direct Buttons []
- 13 A-M (Audio Mode) Button
LOUD (Loudness) Button
- 14 POWER Button
FUNC (Function) Button

[] : In the Radio Mode
 [] : In the CD Mode

* This illustration shows model DRB3475.
 The front panel for other models might have slightly different designs.

α-Selector Operation (ALPHA-TOUCH CONTROLLER)

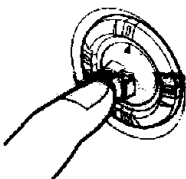
The *α*-selector enables you to operate main functions of each mode with a single finger.

Read through the operating procedures of the *α*-selector first and then read the operating explanations for each mode.

Note:

- The ALPHA-TOUCH CONTROLLER is called "α-selector" in this owner's manual.

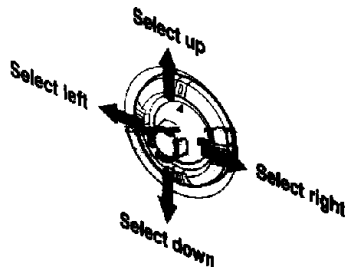
1. Put your index finger on the *α*-selector.



2. To select the up/down direction (▲, ▼) or the left/right direction (◀, ▶), move the *α*-selector to the corresponding direction.

This *α*-selector's operation is mainly used when operating the functions listed below:

- Adjusting the volume.
- Tuning and selection of radio stations.
- Adjustment of audio functions.



Note:

- Do not try to rotate the *α*-selector or apply unnecessary force. This may result in damage or breakdown of the *α*-selector control.

General Operations

▲ CAUTION

Be sure to reduce the volume level before shutting off the ignition key or turning the units power off. The unit remembers its last volume setting and may impair your hearing or cause damage to the unit when turned on at a loud volume setting.

The clock is displayed when the ignition key is turned to the ACC (accessory) or IGN (ignition-on) positions, even if the power to the unit is off.

In some cars, the clock display may momentarily disappear when the ignition key is turned to the START (starter engage) position. The display will reappear after the engine has started and the ignition key is released to the IGN (ignition-on) position.

Turning on/off the power

Note:

• Use caution while operating the unit for long periods of time without running the car's engine. Draining the car's battery will prevent you from starting the car and may possibly shorten the life of the battery.

- 1) Press the POWER button [14].
- 2) The illumination and display on the unit light up. The unit remembers its last operation mode and will automatically switch to display that mode.
- 3) Press and hold the POWER button [14] for 1 second or longer to turn off the power to the unit.

Selecting a mode

- 1) Press the FUNC button [14] to change the mode of operation.
- 2) The mode changes in the following order:
Radio mode → CD mode → Radio mode

Adjusting the Volume

Select up or down to increase or decrease using the α -selector [2]

* Selecting up or down button and holding for 1 second or longer on the α -selector [2] continuously increase or decrease the volume respectively.

Adjusting the audio mode (use the α -selector)

Press the A-M button [13] to select the adjustment mode. Each time you press the button, the item changes in the following order:

Bass/Treble → Balance/Fader → Mode display ...

* The display automatically changes back to the mode display within 7 seconds after adjusting, or if no adjustment is made. Press the A-M button [13] again to select the desired mode if further adjustment is required.

Adjusting the tone

Select "BA:Tr" (bass/treble) adjustment in the display.

●BASS adjustment (step -6 to +6)

Select right or left (◀, ▶) to increase or decrease.

●TREB adjustment (step -6 to +6)

Select up or down (▲, ▼) to increase or decrease.

Adjusting the balance (step L9 to R9)

- 1) Select "BL:Fd" (balance/fader) adjustment in the display.
- 2) Select right or left (◀, ▶) to balance the right or left sound level.

Adjusting the fader (step F9 to R9)

- 1) Select "BL:Fd" (balance/fader) adjustment in the display.
- 2) Select up or down (▲, ▼) to balance the front or rear of the vehicle.

Loudness

The loudness effect emphasizes the bass and treble to create a natural sound tone

When listening to music at a low volume, it is recommended to use the loudness effect.

●Turning on and off the loudness

- 1) Press and hold the LOUD button [13] for 2 second or longer to turn on the loudness effect. When the loudness effect is turned on, "LD" illuminates in the display.
- 2) Press and hold the LOUD button [13] for 2 second or longer to turn off the loudness effect. "LD" disappears in the display.

Switching the display

Press and hold the BAND button [4] then press the DISP button [9] to toggle the display. Each time you press the button, the display switches in the following order:

Main display → Clock display → Main display

* Once selected, the preferred display style (Clock, Main) becomes the display default. When a function adjustment like volume, bass, etc. is made; the screen will momentarily toggle to that function's display; then revert back to the preferred display several seconds after the adjustment.

Setting the clock

- 1) Press and hold in the BAND button [4] then press the DISP button [9] to toggle the display to the clock mode.
- 2) Press and hold in the BAND button [4] then press and hold in the DISP button [9] for at least 2 seconds.
- 3) Select left or right to adjust the time using the α -selector.

●Adjusting minutes

Each time you select right ► using the α -selector [3], the minutes increment up by one digit (0 to 59).

●Adjusting hours

Each time you select left ◀ using the α -selector [3], the hours increment up by one digit (1 to 12).

* The clock only displays time in a 12-hour format.

There is no way to toggle the clock to a 24-hour format.

- 4) Press the Band button [4] to set the clock into memory. This also resets the seconds counter to zero.

Note:

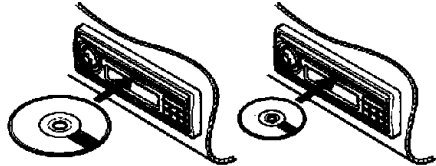
- The clock can only be set by turning power on to the unit and switching to the clock display mode. You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery, the clock must be reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.


CD Operations

Loading a CD

Insert a CD into the center of the insertion slot, label side facing up. The CD plays automatically after loading.

For 5-inch (12 cm) CD For 3-inch (8 cm) single CD



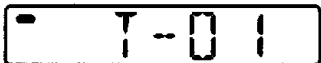
- * Never insert foreign objects into the CD insertion slot.
- * If the CD doesn't insert easily, there may be another CD in the mechanism of the unit that may require servicing.
- * Discs not bearing the  mark will not play with this unit.

Loading 3" (8 cm) compact discs.



* No adapter is required to play a 3" CD.

Listening to a CD already inserted



Press the FUNC button  to select the CD mode. Playback starts automatically.



Changing the time/track display





- 1) Press the DISP  button to toggle the main display to show track time.
- 2) Press the DISP  button again to toggle the main display back to show which track is playing.

Stopping (pausing) Playback





- 1) Press the Play/Pause button  to stop audio playback.
- 2) To resume playback, press the Play/Pause button  again. Playback starts from the point at which the CD was paused.

Selecting a track

●Track-up





- 1) Select right  on the α -selector  to move ahead to the beginning of the next track.
- 2) Each time you select right  on the α -selector , the track advances ahead to the beginning of the next track.

●Track-down





- 1) Select left  on the α -selector  to move back to the beginning of the current track.
- 2) Select left  on the α -selector  twice to move back to the beginning of the previous track.

Fast-forward/fast-backward

●Fast-forward


- 1) Press and hold right  on the α -selector  for 1 second or longer to fast-forward through the current selection.
- 2) Pressing and holding right  on the α -selector  for 3 seconds or longer increases the speed of the audible scan through the selection.

●Fast-backward

- 1) Press and hold left  on the α -selector  for 1 second or longer to fast-backward through the current selection.
- 2) Pressing and holding left  on the α -selector  for 3 seconds or longer increases the speed of the audible scan through the selection.

Top function



The Top function resets the CD player back to the first track on the disc.

Press the TOP button  to play the first track (track No. 1) on the disc.

Scan play (Intro Music Scan)



Scan play finds and plays the first 10 seconds of each track on a disc automatically. This function continues to scan the disc until canceled.

* The scan play is useful when you want to find a desired track on a disc.

- 1) Press the SCN button  to start track scanning.
- 2) To cancel the scan play, press the SCN button  again.



Repeat play

The repeat function continuously plays the current track over and over.

- 1) Press the RPT button . "RPT" illuminates in the display and the current track is repeated. This function continues automatically until it is canceled.
- 2) To cancel the repeat function, press the RPT button  again. "RPT" disappears from the display and normal play resumes.

Random playback

The random play function selects and plays individual tracks on the disc in no particular order.



- 1) Press the RDM button . "RDM" illuminates in the display, an individual track is selected at random, and playback begins. The random play function continues automatically until it is canceled.
- 2) To cancel the random play function, press the RDM button  again. "RDM" disappears from the display and normal play resumes.

Ejecting a CD

- 1) Press the EJECT button  to eject the CD.

* If a CD is left in the ejected position for 15 seconds, the CD is automatically reloaded back into the mechanism (Auto Reload).

* 3" CDs (8 cm) are not reloaded. Be sure to always remove them when ejected.

* Unless the FUNC button  is pressed, the radio mode is selected automatically 4 seconds after the EJECT button  is pressed.

Radio Operations

FM Reception

For enhanced FM performance the **MAGI-TUNE®** tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Listening to the Radio

- 1) Press the FUNC button [14] to select the radio mode.
- 2) Press the BAND button [4] and select the radio bands. Each time the button is pressed, the radio reception band changes in the following order:
FM1 → FM2 → FM3 → AM → FM1 ...
* The FM1, FM2, and FM3 bands provide a maximum of 18 FM stations on the 6 presets. The reception frequency range is the same for all three.
- 3) Select right or left (◀ ▶) to tune to the desired station using the α-selector.

Tuning

There are three types of tuning modes available, seek tuning, manual tuning, and preset tuning.

* The units default setting is the seek tuning mode.

Seek tuning

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) If "MANU" appears in the display, press and hold the BAND button [4] for at least 2 seconds. "MANU" disappears from the display and seek tuning is possible.
- 3) Select right or left (◀ ▶) using the α-selector to seek tune up or down the reception band.

Manual tuning

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) If "MANU" is not illuminated in the display, press and hold the BAND button [4] for at least 2 seconds. "MANU" appears in the display and manual tuning is now possible.

Quick tuning or Step tuning

There are two ways to tune manually.

● Quick tuning:

Press and hold left or right (◀ ▶) on the α-selector for 1 second or longer. The reception band is stepped through quickly.

● Step tuning:

Press left or right (◀ ▶) momentarily on the α-selector to tune through the reception band.

Preset Tuning

A total of 24 Preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exist to store individual radio stations in memory. Pressing the corresponding preset button recalls the stored radio frequency automatically.

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) Press the corresponding Preset button [12] to recall the stored station.

* Press and hold one of the Preset buttons for 2 seconds or longer to store that station into preset memory.

Manual Memory

A total of 24 Preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exist to store individual radio stations in memory. Pressing the corresponding preset button recalls the stored radio frequency automatically.

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) Select right or left (◀ ▶) to tune in to a desired station using the α-selector [3].
- 3) Press and hold one of the Preset buttons [12] for 2 seconds or longer to store that station into preset memory.

Auto Store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. Unless 6 strong stations cannot be received, a previously stored station remains unchanged at that memory position. Also, Auto store keeps track of what stations are stored in memory so no duplication is possible.

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) Press and hold the AS button [5] for 2 seconds or longer. The stations with good reception quality are stored automatically to the preset buttons.

Note:

• When the auto store is performed, the station previously stored are not overwritten if 6 stations strong stations are not found.

Changing the reception area

This unit is initially set to US frequency intervals of 10 kHz for AM and 200 kHz for FM deviation. When using the player outside the US, the frequency reception range can switch to the intervals below:

		Initial Setting (U.S. standard)	New Setting (outside U.S.)
AM	Frequency spacing	10 kHz	9 kHz
	Frequency range	530 to 1,710 kHz	531 to 1,629 kHz
FM	Frequency spacing	200 kHz	50 kHz
	Frequency range	87.9 to 107.9 MHz	87.5 to 108 MHz

Note:

• This tuner's spacing is designed for limited areas outside the US (Australia, New Zealand, parts of Asia, and South America). This tuner will not function in all reception areas. Consult with the Clarion dealer in your particular country for the proper reception frequencies required for that area.

● Setting the reception area:

- 1) Press the BAND button [4] to select the desired FM or AM band.
- 2) While pressing the BAND button [4] select left ◀ on the α-selector [3] to change the tuning area to the outside the U.S. settings.
- 3) While pressing the BAND button [4] select right ▶ on the α-selector [3] to change the tuning area back to the inside the U.S. settings.

* Any station presets memories are lost when changing the reception area.

5. TROUBLESHOOTING

Symptom	Cause	Measure
Power does not switch on. (There is no sound produced.)	The fuse has blown.	Replace the fuse with one of the same rating. If the fuse blows again, contact your store of purchase.
	Wiring is incomplete.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
The compact disc does not enter.	There is already a compact disc inside the disc insertion slot.	Eject the compact disc and then insert another one.
The compact disc soon comes out again.	The compact disc has been inserted upside down.	Insert the compact disc with the labeled side facing up.
Sound skipping noise and other noise is heard.	The compact disc is dirty.	Wipe the compact disc with a soft cloth.
	The compact disc is severely scratched or warped.	Replace the compact disc with one that is in good condition.
The sound is poor immediately after switching on the power.	When the car is parked in a humid place, dew might form on the internal lens.	Turn the unit on and wait for about 1 hour before operating.

- To protect the system, this unit has been equipped with self diagnostic functions. If a fault arises, a warning is issued by various error displays. Follow the corrective measures and remove the fault.

Error Display	Corrective Measures
Er 2	This error display indicates that a fault has arisen in the mechanism of the source unit (for example, the disc cannot be changed or ejected). →Check the source unit.
Er 3	This error display indicates that the pickup focus is off because of a scratched disc or some other factor during the source unit play. →Check the compact disc.

- "6. HANDLING COMPACT DISCS" and "7. SPECIFICATIONS" can be found on the reverse side of this page.

7. SPECIFICATIONS

FM Tuner

Frequency Range.....87.9 MHz to 107.9 MHz
Usable Sensitivity.....11 dBf
50 dB Quieting Sensitivity.....17 dBf
Alternate Channel Selectivity.....75 dB
Stereo Separation (1 kHz).....35 dB
Frequency Response (± 3 dB).....30 Hz to 15 kHz

AM Tuner

Frequency Range.....530 kHz to 1,710 kHz
Usable Sensitivity.....25 μ V

CD Player

System.....Compact disc audio system
Usable discs.....Compact disc
Frequency response.....

10 Hz to 20 kHz (± 1 dB) (★)

20 Hz to 20 kHz (± 1 dB) (☆)

Signal to noise ratio.....

96 dB (★)

86 dB (☆)

Dynamic range.....95 dB

Audio

Maximum Power Output.....

140 W (35 W \times 4 ch)

Continuous Average Power Output.....

14 W \times 4, into 4 Ω , 20 Hz to 20 kHz, 1% THD

Bass Control Action (100 Hz)..... ± 10 dB

Treble Control Action (10 kHz)..... ± 10 dB

Line Output (CD 1 kHz, 10 k Ω).....1.8 V (★)

General

Power Supply Voltage.....14.4 V DC (10.8 V to 15.6 V allowable), negative ground

Current Consumption.....

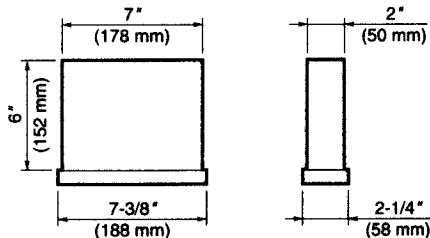
Less than 10 A

Speaker Impedance.....4 Ω (4 Ω to 8 Ω allowable)

Weight.....3.53 lb. (1.6 kg)

Dimensions.....7" (178 mm) Width \times 2" (50 mm)

Height \times 6" (152 mm) Depth




Notes:

- Specifications comply with EIA Standards.
- Specifications and the design are subject to change without notice for further improvement.

★ mark: DRB3475

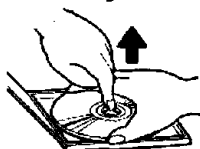
☆ mark: DRB2475

6. HANDLING COMPACT DISCS

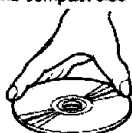
This unit has been designed specifically for play-back of compact discs bearing the  mark. No other discs can be played.

To remove the compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.

Removing the disc

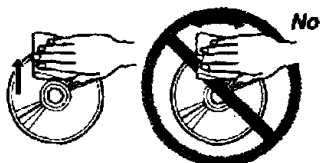


Proper way to hold the compact disc

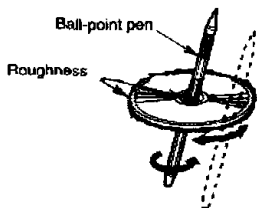


Always handle the compact disc by the edges. Never touch the surface.

To remove fingermarks and dust, use a soft cloth, and wipe in a straight motion from the center of the compact disc to the outside.

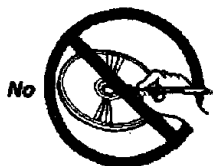


New discs may have some roughness around the edges. The unit may not work or the sound may skip if such discs are used. Use a ball-point pen, etc., to remove roughness from the edge of the disc.

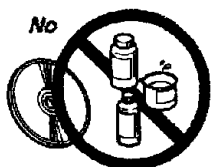


Note on Compact Discs

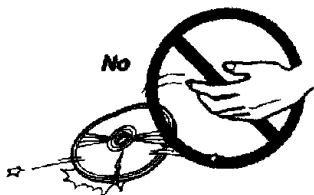
Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.



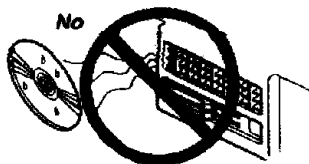
Do not use any solvents such as commercially available cleaners, anti-static spray, or thinner to clean compact discs.



Do not use compact discs that have large scratches, are misshaped, or cracked, etc. Use of such discs will cause misoperation or damage.



Do not expose compact discs to direct sunlight or any heat source.



Note:

- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may get caught in the internal mechanism and damage the disc.